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U.S. DEPT. OF AGRICULTURE
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FEDERAL - STATE - PRIVATE

COOPERATIVE

SNOW SURVEY and WATER SUPPLY FORECASTS for WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE···SOIL CONSERVATION SERVICE,

and

STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service, and other Federal, State and private organizations.

AS OF

MAY 1, 1961

USDA SCS LINCOLN NEBR 1960

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Cooperative Snow Survey and Water Supply Forecast Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
Colorado and State of Utah	Monthly (Jan.-May)	Salt Lake City, Utah	Utah State Engineer and Other Agencies
Columbia	Monthly (Jan.-May)	Boise, Idaho	Idaho State Reclamation Engineer
Upper Missouri and State of Montana	Monthly (Feb.-May)	Bozeman Montana	Mont. Agr. Exp. Station
West-Wide	Oct. 1, Apr. 1, May 1	Portland, Oregon	All Cooperators
STATES			
Alaska	Monthly (Mar.-May)	Palmer, Alaska	Alaska S.C.D.
Arizona	Semi-Monthly (Jan.15 - Apr.1)	Phoenix, Arizona	Salt R. Valley Water Users Assoc. Ariz. Agr. Exp. Station
Colorado and New Mexico	Monthly (Feb.-May)	Fort Collins, Colorado	Colo. Agr. Exp. Station Colo. State Engineer N. Mex. State Engineer
Idaho	Monthly (Feb.-May)	Boise, Idaho	Idaho State Reclamation Engineer
Nevada	Monthly (Feb.-Apr.)	Reno, Nevada	Nevada Dept. of Conservation and Natural Resources Division of Water Resources
Oregon	Monthly (Jan.-May)	Portland, Oregon	Ore. Agr. Exp. Station Oregon State Engineer
Washington	Monthly (Feb.-May)	Spokane, Washington	Wn. State Dept. of Conservation
Wyoming	Monthly (Feb. June)	Casper, Wyoming	Wyoming State Engineer

Copies of these various reports may be secured from: Head, Water Supply Forecasting Section
Soil Conservation Service
209 S. W. Fifth Ave., Portland 4, Oregon

PUBLISHED BY OTHER AGENCIES

REPORTS	ISSUED	AGENCY
British Columbia	Monthly (Feb.-June)	Comptroller, Water Rights Br., Dept. of Lands and Forests, Parliament Blog., Victoria, B.C., Canada
California	Monthly (Feb.-May)	Calif. Dept. of Water Resources, Sacramento, Calif.

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued
May 1, 1961

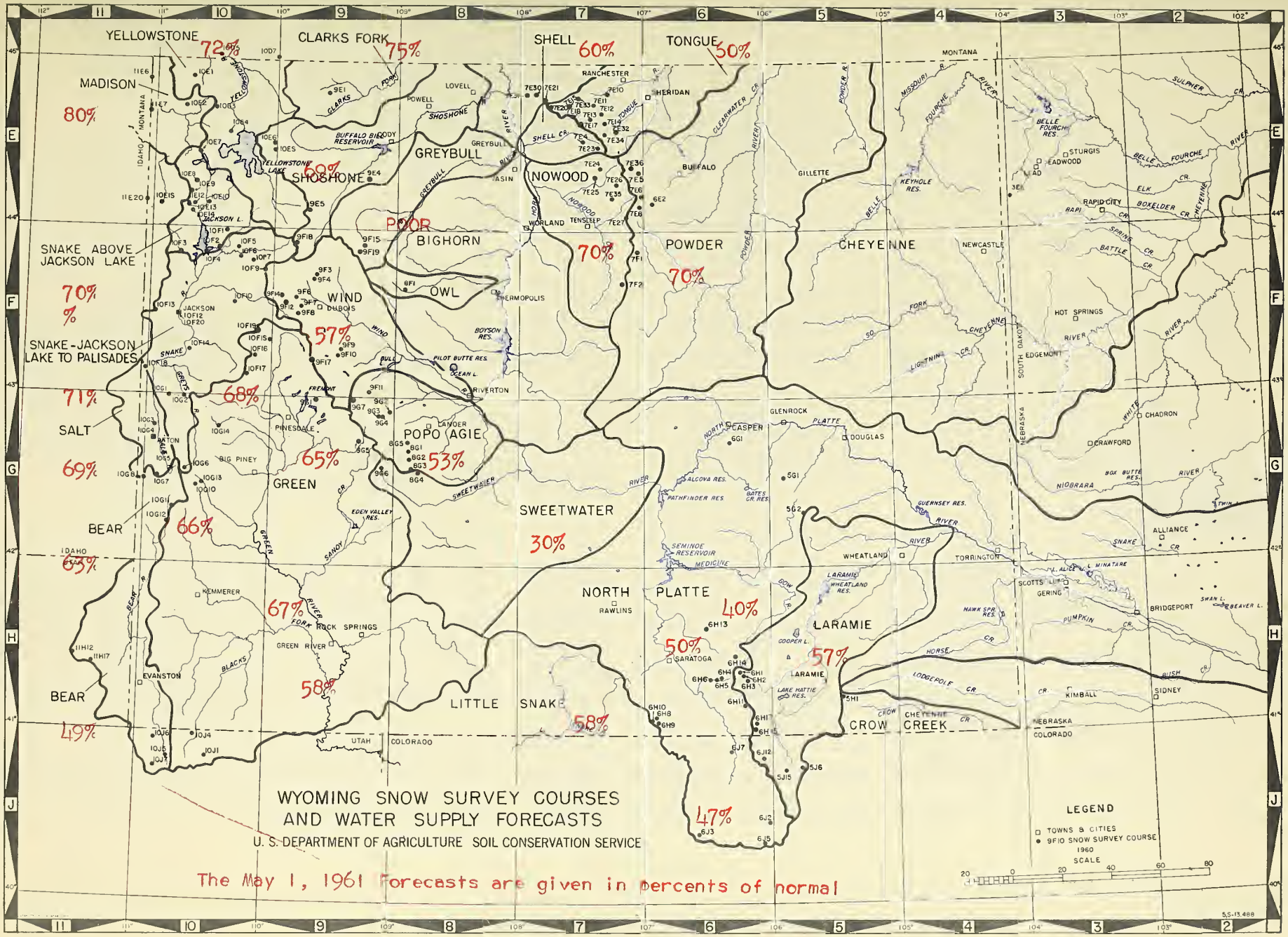
Report Prepared
by
George W. Peak
Snow Survey Supervisor
State of Wyoming

Soil Conservation Service
345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service

Earl Lloyd
State Engineer of Wyoming
Cheyenne, Wyoming


YELLOWSTONE
72%
CLARKS FORK
75%
SHELL
60%
TONGUE
50%
MADISON
80%
SHOSHONE
60%
GREYBULL
NOWOOD
POOR
BIGHORN
70%
POWDER
70%
CHEYENNE
SNAKE ABOVE JACKSON LAKE
70%
%
WIND
OWL
57%
SNAKE-JACKSON LAKE TO PALISADES
71%
68%
SALT
69%
POPO AGIE
53%
65%
GREEN
BEAR
66%
63%
SWEETWATER
30%
NORTH PLATTE
40%
LARAMIE
50%
57%
67%
58%
BEAR
49%
LITTLE SNAKE
58%
CROW CREEK
47%
MONTANA
WYOMING
IDAHO
UTAH
COLORADO
NEBRASKA
SOUTH DAKOTA
RANCHESTER
HERIDAN
LOVELL
POWELL
BUFFALO BILL RESERVOIR
YELLOWSTONE LAKE
JACKSON L.
BUFFALO
GILLETTE
KEYHOLE RES.
BELLE FOURCHE RES.
STURGIS
SPEARFISH
RAPID CITY
NEWCASTLE
HOT SPRINGS
EDGEMONT
CHADRON
CRAWFORD
ALLIANCE
HARRISON
BOYSON RES.
PILOT BUTTE RES.
OCEAN L.
RIVERTON
LANDER
FREMONT
PINEDALE
BIG PINEY
EDEN VALLEY RES.
KEMMERER
ROCK SPRINGS
GREEN RIVER
EVANSTON
GLENROCK
DOUGLAS
CASPER
ALCOVA RES.
PATHFINDER RES.
GATES CR RES.
GUERNSEY RES.
SEMINOE RESERVOIR
MEDICINE
WHEATLAND
TORRINGTON
LARAMIE WHEATLAND RES.
GERING
SCOTTS BLUFF
BRIDGEPORT
HAWK SPR RES.
COOPER L.
SARATOGA
RAWLINS
LARAMIE
LAKE HATTIE RES.
KIMBALL
SIDNEY
CHEYENNE
WORLAND
TENSLEEP
HORSE CR.
LODGEPOLE CR.
PUMPKIN CR.
SWAN L.
BEAVER L.
WHITE
NIOBRARA
BOX BUTTE RES.
SNAKE CR.
BELLE FOURCHE RIVER
CHEYENNE RIVER
POWDER RIVER
SHELL CR.
TONGUE RIVER
CLEARWATER CR.
BIGHORN RIVER
WIND RIVER
GREEN RIVER
SWEETWATER RIVER
NORTH PLATTE RIVER
SOUTH PLATTE RIVER
BLACKS FORK
SANDY
BEAR R.
WYOMING SNOW SURVEY COURSES
AND WATER SUPPLY FORECASTS
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
The May 1, 1961 Forecasts are given in percents of normal
LEGEND
TOWNS & CITIES
9F10 SNOW SURVEY COURSE
1960
SCALE
20 0 20 40 60 80
55-13,488

INDEX TO WYOMING SNOW COURSES

ORAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	LOCATION ELEV.	SEC. LAT.	TWP.	RANGE LONG.	RECORD BEGAN	MEAS. DATES a	MEAS. BY b
MISSOURI RIVER ORAINAGE								
MADISON RIVER								
Norris Basin	10E2	7500	44°44'		110°42'	1936	2,3,4,5	2
21 Mile •m	11E6	7150	1	11S	5E	1934	1,2,3,4,5	6
West Yellowstone •m	11E7	6700	34	13S	5E	1934	1,2,3,4,5	6
YELLOWSTONE								
Canyon	10E3	7750	44°44'		110°30'	1938	1,2,3,4,5	1
Cooke City •m	10D7	7400	25	9S	14E	1937	1,2,3,4,5	2
Crevice Mountain •m	10D5	8400	22	9S	9E	1935	3,4	4
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2
Lake Camp	10E4	7850	44°34'		110°24'	1937	1,2,3,4,5	1
Lupine Creek	10E1	7300	44°54'		110°37'	1938	1,2,3,4,5	2
Thumb Divide	10E7	7900	44°22'		110°35'	1946	2,3,4	5
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2
CLARK'S FORK								
Lodgepole	9E1	8200	32	56N	106W	1940	2,3,4,5	1,4
WIND RIVER								
Big Warm	9F12	8800	36	42N	109W	1955	2,3,4,5	1
Burroughs Creek	9F4	8800	15	43N	107W	1948	2,3,4,5	1
Dinwoodie	9F10	10000	9	38N	105W	1948	2,3,4,5	1,3
Dinwoodie Glaciers	9F17	10500	43°14'		109°35'	1959	2,3,4	1
Dry Creek	9F9	9500	34	4N	105W	1948	2,3,4,5	1,3
DuNoir	9F6	8750	27	42N	108W	1940	2,3,4,5	1
Geyser Creek	9F7	8500	12	41N	108W	1948	2,3,4,5	1
Little Warm	9F8	9500	24	41N	108W	1948	2,3,4,5	1
Sheridan R.S. #2	9F14	7500	3	42N	109W	1955	2,3,4,5	1
T-Cross Ranch	9F3	8000	1	43N	107W	1940	2,3,4,5	1
Togwotee Pass	10F9	9600	29	44N	110W	1936	2,3,4,5	5
POPO AGIE RIVER								
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1
Bruce's Camp	8G5	6500	24	32N	101W	1955	2,3,4	1
Hobbs Park	9G3	10000	22	2S	3W	1948	2,3,4,5	1,3
Mosquito Park R.S.	9G4	9500	23	2S	3W	1940	2,3,4,5	1,3
Sawmill Glade	8G1	8500	3	31N	101W	1939	2,3,4,5	1
South Pass	8G3	9000	13	30N	101W	1939	2,3,4,5	1
St. Lawrence R.S.	9F11	9000	26	1N	4W	1940	2,3,4,5	1,3
Trout Creek	9G2	8400	5	2S	2W	1948	2,3,4,5	1,3
Twenty Lakes	9G7	10500	2	1S	5W	1959	2,3,4	1
OWL CREEK								
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	1
GREYBULL RIVER								
Kirwin	9F19	11000	13	45N	104W	1960	2,3,4	1
Wood River #2	9F15	8000	28	46N	103W	1956	2,3,4,5	1
SHOSHONE RIVER								
Carter Mountain	9E4	7800	15	50N	103W	1957	1,2,3,4	1
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2
Ishawooa Cone	9E5	9200	44°13'		109°47'	1960	2,3,4	1
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2
Younts Peak	9F18	8500	43°56'		109°49'	1960	2,3,4	1
NOWOOD CREEK								
Cold Springs Camp	7E25	8700	1	50N	88W	1956	2,3,4,5	1
Medicine Lodge Lakes	7E24	9500	7	51N	87W	1956	2,3,4,5	1
Munkres Pass	7E8	9700	11	48N	85W	1950	2,3,4,5	1
Onion Gulch	7E27	8100	31	48N	85W	1956	2,3,4,5	1
Tensleep Lake	7E26	9075	33	50N	86W	1956	2,3,4,5	1
Tyrell R.S.	7E35	8300	30	49N	86W	1956	2,3,4,5	1
Bear Trap	7F1	8000	10	45N	85W	1960	2,3,4,5	1
Canyon Creek	7F2	7400	16	43N	86W	1960	2,3,4,5	1
SNELL CREEK								
Bald Mountain	7E21	9600	33	56N	91W	1956	2,3,4,5	1
Beaver-Tongue Divide	7E20	9200	12	55N	91W	1956	2,3,4,5	1
Bone-Spring Divide	7E18	9200	32	55N	89W	1956	2,3,4,5	1
Granite Pass	7E17	8950	19	54N	88W	1956	2,3,4,5	1
Ranger Creek	7E4	8800	32	53N	88W	1935	2,3,4,5	1
Shell Creek	7E23	9600	12	52N	88W	1956	2,3,4,5	1
PORCUPINE CREEK								
Five Springs Falls	7E31	7500	19	56N	92W	1956	2,3,4,5	1
Medicine Wheel	7E30	9000	24	56N	92W	1956	2,3,4,5	1
TONGUE RIVER								
Beaver-Tongue Divide	7E20	9200	12	55N	91W	1956	2,3,4,5	1
Big Goose #2	7E32	7700	4	53N	86W	1955	2,3,4,5	1
Bone-Spring Divide	7E18	9200	32	55N	89W	1956	2,3,4,5	1
Burgess R.S. #2	7E33	7900	36	56N	89W	1955	2,3,4,5	1
Dome Lake #2	7E34	8800	11	53N	87W	1950	2,3,4,5	1
Gloom Creek	7E14	9300	32	55N	87W	1956	2,3,4,5	1
Granite Pass	7E17	8950	19	54N	88W	1956	2,3,4,5	1
North Tongue	7E15	8800	17	55N	89W	1956	2,3,4,5	1
Sibley Lake	7E11	8000	10	55N	88W	1956	2,3,4,5	1
Sucker Creek	7E12	9000	19	55N	87W	1956	2,3,4,5	1
Steamboat Point	7E10	7500	32	56N	87W	1956	2,3,4,5	1
Wood Rock G.S.	7E13	8500	3	54N	88W	1956	2,3,4,5	1
POWDER RIVER								
Bear Trap	7F1	8000	10	45N	85W	1960	2,3,4,5	1
Canyon Creek	7F2	7400	16	43N	86W	1960	2,3,4,5	1
Clouds Peak	7E36	10000	15	51N	85W	1960	2,3,4	1
Muddy Creek G.S.	6E2	7800	2	48N	84W	1956	2,3,4,5	1
Munkres Pass	7E8	9700	11	48N	85W	1950	2,3,4,5	1
Onion Gulch	7E27	8100	31	48N	85W	1956	2,3,4,5	1
Soldier Park	7E5	8700	36	51N	85W	1950	2,3,4,5	1
Sour Dough	7E6	8500	17	49N	84W	1936	2,3,4,5	1
SWEETWATER								
Grannier Meadows #1	8G4	9000	19	30N	100W	1937	2,3,4,5	1
Larsen Creek	9G6	9000	12	30N	103W	1949	2,3,4,5	1
South Pass	8G3	9000	13	30N	101W	1939	2,3,4,5	1
LARAMIE RIVER								
Brooklyn Lake #1	6H1	10200	11	16N	79W	1936	2,3,4,5	1
Brooklyn Lake #2	6H13	10200	11	16N	79W	1956	2,3,4,5	1
Deadman Hill •c	5J6	10200	26	10N	75W	1937	3,4,5	
Evans	6H15	9000	4	12N	76W	1960	2,3,4,5	1
Fox Park	6H12	9200	21	13N	76W	1936	2,3,4,5	4
Hairpin Turn #2	6H2	9500	24	16N	79W	1936	2,3,4,5	1
Libby Lodge #2	6H3	8700	29	16N	78W	1936	2,3,4,5	1
McIntyre •c	5J15	9100	35	10N	76W	1949	2,3,4,5	
Pole Mountain #2	5H1	8700	35	15N	72W	1936	2,3,4,5	1
Roach •c	6J12	9800	5	10N	77W	1940	2,3,4,5	1
MISSOURI RIVER ORAINAGE								
CROW CREEK								
Pole Mountain #2	5H1	8700	35	15N	72W	1936	2,3,4,5	1
NORTH PLATTE								
Albany	6H11	9400	18	14N	78W	1949	2,3,4,5	1
Bottle Creek	6H8	8200	24	14N	85W	1936	2,3,4,5	1
Boxelder	5G1	9000	31	30N	75W	1950	2,3,4,5	1
Casper Mountain	6G1	8700	16	32N	79W	1954	1,2,3,4,5	1
Columbine •c	6J3	9300	21	5N	82W	1936	2,3,4,5	1
Elk Mountain	6H13	10000	2	19N	81W		2,3,4	1
Fox Park	6H12	9200	21	13N	78W	1936	2,3,4,5	4
LaBonte	5G2	8450	11	27N	74W	1949	2,3,4,5	1
North Barrett Creek #2	6H5	9400	30	16N	80W	1936	2,3,4,5	1
North French Creek #1	6H4	10200	27	16N	80W	1938	2,3,4,5	1
Northgate •c	6J7	8500	7	11N	79W	1950	2,3,4,5	
Old Battle	6H10	9800	29	14N	85W	1936	2,3,4,5	1
Park View •c	6J2	9200	24	5N	78W	1936	2,3,4,5	
Rock Creek	6H14	9800	5	17N	79W	1960	2,3,4	1
Ryan Park #2	6H6	8400	34	16N	81W	1936	2,3,4,5	1
Webber Spring	6H9	9000	27	14N	85W	1936	2,3,4,5	1
Willow Creek Pass •c	6J5	9500	1	4N	78W	1938	2,3,4,5	
CNEYENNE RIVER								
Upper Spearfish •s	3E1	6500	21	3N	1E	1944	2,3,4	4
COLORADO RIVER ORAINAGE								
GREEN RIVER								
Big Park	10G11	8700	7	27N	117W	1951	2,3,4,5	1
Blind Bull	10G2	8750	6	34N	115W	1945	2,3,4,	1
Dutch Joe R.S.	9G5	8700	32	31N	104W	1936	2,3,4,5	1
East Rim Divide	10F17	7950	32	37N	111W	1936	1,2,3,4,5	1
Gros Ventre	10F19	8750	36	40N	111W	1948	2,3,4,5	1
Hewinta R.S. •u	10J4	9500	33	3N	13E	1930	4	1
Hole-in-the-Rock •u	10J1	9150	13	2N	15E	1931	4	1
Kelly R.S.	10G12	8200	13	26N	118W	1951	2,3,4,5	1
Kendall R.S.	10F15	7900	23	38N	110W	1936	2,3,4,5	1
Loomis Park	10F16	8500	14	37N	111W	1936	2,3,4,5	1
Mulligan Park	9G1	8900	17	35N	108W	1936	2,3,4,5	1
Old Battle	6H10	9800	29	14N	85W	1936	2,3,4,5	1
Piney-LaBarge	10G10	8820	19	29N	114W	1937	2,3,4,5	1
Poison Meadows	10G6	8500	29	30N	116W	1948	2,3,4,5	1
Snyder Basin R.S. #2	10G13	8040	15	29N	114W	1956	2,3,4,5	1
Soda Lake	10G14	8300	14	33N	115W	1955	2,3,4,5	1
COLUMBIA RIVER ORAINAGE								
SNAKE RIVER BASIN (Above Jackson Lake)								
Arizona	10F1	6850	3	46N	113W	1919	2,3,4	5
Aster Creek	10E8	7700	44°17'		110°37'	1919	2,3,4	5
Base Camp	10F2	6900	20	46N	113W	1947	2,3,4	5
Coulter Creek	10E10	7600	44°09'		110°33'	1919	2,3,4	2
Glade Creek	10E13	7200	44°08'		110°44'	1919	2,3,4	5
Grassy Lake	10E15	7265	6	43N	117W	1940	2,3,4,5	5
Huckleberry Divide	10E14	7300	32	48N	115W	1919	2,3,4	5
Lewis Lake Divide	10E9	7900	44°13'		110°40'	1919	2,3,4,5	5
Moran	10F4	6800	8,17	45N	114W	1919	2,3,4	5
Moran Bay	10F3	6800	14	45N	116W	1919	2,3,4	5
Snake River Station	10E12	6780	44°08'		110°40'	1919	2,3,4	5
Thumb Divide	10E7	7900	44°22'		110°35'	1951	2,3,4	5
JACKSON LAKE TO PALISAOES								
Afton R.S.	10G4	6200	30	32N	118W	1936	1,2,3,4,5	4
Blackrock	10F7	8600	4	44N	111W	1936	2,3,4	5
Blind Bull	10G2	8750	6	34N	115W	1948	2,3,4	1
Bryan Flat	10F14	6250	9	38N	115W	1936	1,2,3,4,5	1
CCC Camp	10G7	7500	9	29N	118W	1936	1,2,3,4,5	1,4
Cottonwood Lake	10G5	7500	25	31N	118W	1936	2,3,4	1,4
Deadman Ranch	10G1	6534	28	35N	116W	1936	2,3,4	1
East Rim Divide	10F17	7350	32	37N	111W	1936	1,2,3,4,5	1
Four Mile Meadows	10F6	7770	35	45N	112W	1936	2,3,4,5	5
Greys Boundary	10F18	5800	33	37N	118W	1936	1,2,3,4,5	1,4
Gros Ventre	10F19	8750	36	40N	111W	1948	2,3,4,5	1
Grover Park Divide	10G3	7500	27	33N	118W	1936	1,2,3,4,5	1,4
Loomis Park	10F16	8500	14	37N	111W	1936	2,3,4,5	1
Poison Meadows	10G6	8500	29	30N	116W	1949	2,3,4,5	1
Teton Pass #2	10F13	8500	24	41N	118W	1936	1,2,3,4,5	1,
Togwotee Pass	10F9	9600	29	44N	110W	1936	2,3,4,5	5
Turpin Meadows	10F5	6930	14	45N	112W	1936	2,3,4	5
Yellowjacket	10F10	7675	33	42N	112W	1936	2,3,4,5	4
Salt River Summit	10G8	7900	32	29N	118W	1948	1,2,3,4,5	1,4
Snow King Mountain #2	10F12	7000	4	40N	117W	1954	Semi. Mo.	1
Snow King Mountain #3	10F20	7600	4	40N	117W	1959	Semi. Mo.	1
BEAR RIVER								
Big Park	10G11	8700	7	27N	117W	1951	2,3,4,5	1
CCC Camp	10G7	7500	9	29N	118W	1936	2,3,4,5	1,4
Girl Hollow •u	11H17	8400	5	7N	5E	1951	3,4,5	1
Goodman Ranch •u	10J6	7900	19	3N	10E	1937	4	1
Hayden Fork •u	10J7	9300	1	1S	9E	1951	4,5	1
Head of Bear River •u	10J5	8600	15	2N	10E	1935	4	1
Kelly R.S.	10G12	8200	13	26N	118W	1951	2,3,4,5	1
Monte Cristo, R.S. •u	11H12	8960	3	8N	4E	1930	3,4,5	1
Poison Meadows	10G6	8500	29	30N	116W	1948	2,3,4,5	1
Salt River Summit	10G8	7900	32	29N	118W	1948	2,3,4,5	1,4

a. Numerals 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1, and May 1.

b. Numerals refer to Agency that secures the snow survey, as follows:

1. Soil Conservation Service.
2. U. S. National Park Service.
3. U. S. Indian Service.
4. U. S. Forest Service.
5. U. S. Bureau of Reclamation.
6. U. S. Geological Survey.

c. Colorado snow courses.
m. Montana snow courses.
s. South Dakota snow courses.
u. Utah snow courses.

WATER SUPPLY OUTLOOK
FOR
WYOMING

MAY 1, 1961

* High elevation snow surveys throughout the state indicate very little change from the outlook of one month ago. The Wyoming snow pack is seriously below normal. In addition, reservoir contents are also far below the May 1 average. Precipitation during May and June must prove to be considerably above normal in order to materially improve current watershed conditions.

THE SNAKE RIVER BASIN above Moran is expected to yield a seasonal flow of 650,000 acrefeet of water, or 70 percent of average. Jackson Reservoir contains 150,200 acrefeet of storage as compared to the May 1 average of 503,300 and capacity of 847,000 acrefeet. The discharge into Palisades of the Snake and Greys is forecast at 2,244,000 acrefeet or 71 percent. The Salt River snow surveys indicate a flow of 250,000 acre feet which is 69 percent of normal. Palisades reservoir is 58 percent of the usable capacity of 1,202,000 acrefeet.

THE GREEN RIVER forecast is for 68 percent of normal at Warren Bridge. The New Fork near Boulder and North Piney near Mason will contribute 65 and 66 percent respectively for a total of 667,000 acrefeet of runoff at Fontenelle. This is 67 percent of the average seasonal flow at this location.

THE WIND RIVER flow at Dubois is anticipated to be 63,000 acrefeet for the summer or 57 percent of normal. The North Popo Agie and Little Popo Agie will contribute 58 and 45 percent respectively. Boysen Reservoir contents are 92,700 or 23 percent of normal and 17 percent of capacity. Flow from the Big Horns is estimated at 60 to 70 percent of normal. Snow melt runoff into Buffalo Bill Reservoir is forecast at 587,000 acrefeet or 69 percent of normal. Reservoir contents are 117,500 acre feet which is 51 percent of average and 31 percent of capacity.

THE NORTH PLATTE RIVER watershed will release 47 percent at Northgate, 58 percent at Encampment, and 335,000 acrefeet or 50 percent of normal at Saratoga. Combined reservoir storage in Seminoe and Pathfinder is 295,800 acrefeet of water, 28 percent of the usual May 1 contents and 15 percent of their combined capacities. Alcova is practically full. Guernsey and Glendo are standing at 43 percent of their combined capacities of 826,100 acrefeet. The Laramie River is expected to flow 57 percent of normal, or 65,000 acrefeet at Jelm. Wheatland Reservoir contents are 20,700 which is 22 percent of capacity.

WYOMING STREAM-FLOW FORECASTS MAY 1, 1961

BASIN AND TRIBUTARY	April 1 - September 30 Seasonal Stream-Flow in Thousands of Acre Feet			
	Forecast Runoff	Percent 15-Year Average	Measured Runoff 1959	15-Year Average 1943-57
MADISON RIVER				
West Yellowstone (at)	174	80%	192	216
YELLOWSTONE RIVER				
Corwin (at)	1421	72%	1785	1980
NORTH POPO AGIE				
Milford (near)	50	58%	55	86*
LITTLE POPO AGIE				
Lander (near)	22	45%	25	49*
WIND RIVER				
Dubois (at)	63	57%	88	110*
SHOSHONE RIVER				
Buffalo Bill Dam (below) (1)	587	69%	765	851
CLARKS FORK				
Chance (at)	461	75%	648	617
LARAMIE RIVER				
Jelm (at) (2)	65	57%	84	113
ENCAMPMENT RIVER				
Encampment (near)	90	58%	92	156
NORTH PLATTE RIVER				
Northgate (at)	120	47%	190	255
Saratoga (at)	335	50%	444	661
MEDICINE BOW RIVER				
Hanna (near)	40	40%	50	99
SWEETWATER RIVER				
Alcova (near)	25	30%	17	84
HENRYS FORK				
Linwood (at)			27	40

WYOMING STREAM-FLOW FORECASTS MAY 1, 1961

BASIN AND TRIBUTARY	April 1 - September 30 Seasonal Stream-Flow in Thousands of Acre Feet			
	Forecast Runoff	Percent 15-Year Average	Measured Runoff 1959	15-Year Average 1943-57
GREEN RIVER				
Fontenelle (at)	667	67%	704	995
Green River (near)	690	58%	734	1200
Warren Bridge (at)	237	68%	310	348
NORTH PINEY CREEK				
Mason (near)	27	66%	32	41
NEW FORK CREEK				
Boulder (near)	170	65%	201	260
SNAKE RIVER				
Moran (at) (3)	650	70%	680	928
Alpine above reservoir (near) (Includes Greys River)	2244	71%	2217	3161
PACIFIC CREEK				
Moran (near)	140	76%	160	185*
BUFFALO FORK				
Moran (near)	245	73%	372	337*
SALT RIVER				
Etna above reservoir (near)	250	69%	255	360
BEAR RIVER				
Utah-Wyo. State Line (near)	60	49%	100	123*
Randolph (near)				
Harrer (at)	85	28%	124	299
SMITH FORK				
Border (near)	75	63%	80	119

All stream data taken from observed flow records with the following exceptions:
(1) Observed flow corrected for storage in Buffalo Bill reservoir and Heart Mountain Diversion.
(2) Observed flow corrected for Colorado diversion above station.
(3) Observed flow corrected for Jackson Lake storage.
* Less than 15 years of record.
** Estimated 1943-57 average.

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1961

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS 1961 Date of Survey	Snow Depth (In.)	Water Content (In.)	PAST RECORD Water Content (In.) 1960	1959	1943-57 Average	Prior Yrs. of Record
MADISON RIVER - YELLOWSTONE PARK									
Norris Basin ÷	10E2	7500	5/1	20	5.7	4.2	5.0	5.6**	8
21 Mile[m]	11E6	7150	4/27	42	16.4	9.8	12.3	14.5*	16
West Yellowstone[m]	11E7	6700	4/27	15	5.4	0.0	2.0	5.6	25
UPPER YELLOWSTONE - YELLOWSTONE PARK									
Canyon	10E3	7750	5/1	37	10.0	8.7	11.8	11.7**	14
Cooke City[m]	10D7	7400	5/1	22	6.6	4.1	7.0	6.2*	16
East Entrance ÷	10E6	7000	5/1	0	0.0	0.0	6.1	4.7**	7
Lake Camp #1	10E4	7850	5/1	=24	5.9	5.0	6.5	8.3*	15
Lake Camp #2	10E4	7850	5/1	21	5.1	2.8	5.1		4
Lupine Creek	10E1	7300	5/1	20	6.8	0.0	7.1	7.8**	10
Norris Basin ÷	10E2	7500	5/1	20	5.7	4.2	5.0	5.6**	8
Sylvan Pass ÷	10E5	7100	5/1	27	8.6	5.0	13.2	10.0*	19
LOWER YELLOWSTONE - CLARK'S FORK									
Lodgepole	9E1	8200	5/1	26	6.8	5.2	10.9	11.0*	21
LOWER YELLOWSTONE - WIND RIVER									
Big Warm	9F12	8800	4/26	19	5.7	0.7	7.5	7.8**	6
Burroughs Creek	9F4	8800	4/28	35	10.1	6.7	14.3	14.9**	12
Dinwoodie	9F10	10000	4/29	42	9.9	10.6	12.7	14.6**	12
Dinwoodie Glaciers ÷	9F17	10500	4/25	51	13.0E				
Dry Creek	9F9	9500	4/29	26	6.5	3.1	7.0	7.8**	12
DuNoir	9F6	8750	4/26	14	3.8	1.9	6.5	7.9*	19
Geyser Creek	9F7	8500	4/27	14	3.7	1.3	5.4	6.0**	12
Little Warm	9F8	9500	4/27	56	14.3	14.9	19.3	20.3**	12
Sheridan R.S. #2	9F14	7500	4/26	5	1.0	0.2	2.4	4.3**	6
T-Cross Ranch	9F3	8000	4/28	3	1.0	0.4	2.8	4.6*	18
Togwotee Pass ÷	10F9	9600	4/30	79	28.8	27.0	33.2	33.2**	7
Twenty Lakes ÷	9G7	10000	4/25	26	6.5E				
LOWER YELLOWSTONE - OWL CREEK									
Kirwin ÷	9F19	10000	AERIAL						
Owl Creek	8F1	8700	4/27	36	8.3	9.3	6.5	7.6**	12

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1961

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS 1961 Date of Survey	Snow Depth (In.)	Water Content (In.)	PAST RECORD Water Content (In.) 1960	1959	1943-57 Average	Prior Yrs. of Record
LOWER YELLOWSTONE - GREYBULL RIVER									
Frontier Needle	9E6	10000	AERIAL						
Kirwin ÷	9F19	10000	AERIAL						
Timber Creek #2	9E3	8800	4/27	11	3.7	2.9	3.5	4.2**	6
Wood River #2	9F15	8000	4/28	15	4.1	4.6	4.8	5.8**	6
LOWER YELLOWSTONE - POPO AGIE RIVER									
Blue Ridge	8G2	9500	4/23	32	7.6	2.4	7.0	13.6	21
Bruce's Camp	8G5	6500	4/23	0	0.0	0.0	0.0		4
Grannier Meadows ÷	8G4	9000	4/23	33	7.1	6.8	6.2	15.5	24
Hobbs Park	9G3	10000	5/1	48	15.2	12.9	16.5	21.1**	12
Mosquito Park R.S.	9G4	9500	5/1	19	4.9	2.1	6.6	8.2**	16
Sawmill Glade	8G1	8500	4/23	24	6.9	0.0	2.9	7.1	21
South Pass ÷	8G3	9000	4/23	37	10.0	4.3	7.4	16.3	21
St. Lawrence R.S.	9F11	9000	4/30	15	4.3	1.4	5.6	7.4*	17
Trout Creek	9G2	8400	5/1	6	1.1	0.0	2.9	2.9**	12
Twenty Lakes ÷	9G7	10500	4/25	26	6.5E				
LOWER YELLOWSTONE - SHOSHONE RIVER									
Carter Mountain	9E4	7800	4/28	16	4.7	3.8	4.5		4
East Entrance ÷	10E6	7000	5/1	0	0.0	0.0	6.1	4.7**	7
Sylvan Pass ÷	10E5	7100	5/1	27	8.6	5.0	13.2	10.0*	19
Togwotee Pass ÷	10F9	9600	4/30	79	28.8	27.0	33.2	33.2**	7
LOWER YELLOWSTONE - NOWOOD CREEK									
Bear Trap ÷	7F1	8000	5/3	24	8.6	1.9			1
Canyon Creek ÷	7F2	7400	4/29	45	15.5	10.0			1
Cold Springs Camp	7E25	8700	5/1	26	8.2	3.1	10.0	6.6**	5
Medicine Lodge Lakes	7E24	9500	5/1	41	13.0	9.3	15.3		4
Munkres Pass ÷	7E8	9700	5/1	30	8.0	7.4	11.7	9.7**	10
Onion Gulch ÷	7E27	8100	4/26	37	8.7	5.6	12.5	8.8**	5
Tensleep R.S.	7E7	8300	ABANDONED						
Tyrell R.S.	7E35	8300	4/25	33	5.5	5.4	12.4		4
West Tensleep Lake	7E26	9075	4/25	40	9.3	8.6	14.2		4

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LOWER YELLOWSTONE - SHELL CREEK									
Bald Mountain ÷	7E21	9600	4/25	79	25.2	20.8	31.0	23.9**	5
Beaver Tongue ÷	7E20	9200	4/24	75	22.0	16.6	29.8		4
Bone Spring ÷	7E18	9200	4/27	65	18.8	16.0	23.8		4
Granite Creek Camp	7E22	7800	5/2	0	0.0	0.0	0.4		4
Granite Pass ÷	7E17	8950	4/27	58	17.1	16.4	22.5	20.1**	5
Ranger Creek	7E4	8800	5/2	24	7.3	3.1	12.2	7.2	24
Shell Creek	7E23	9600	5/2	51	14.9	13.9	18.3	16.2**	5
LOWER YELLOWSTONE - PORCUPINE CREEK									
Five Springs Falls	7E31	7500	4/28	26	7.8	2.9	12.0	6.5**	5
Medicine Wheel	7E30	9000	4/25	60	18.4	14.6	25.9	17.4**	5
LOWER YELLOWSTONE - TONGUE RIVER									
Beaver Tongue ÷	7E20	9200	4/24	75	22.0	16.6	29.8		4
Big Goose #2	7E32	7700	4/29	27	7.7	4.6	9.0	9.1**	6
Bone Spring ÷	7E18	9200	4/27	65	18.8	16.0	23.8		4
Burgess R.S. #2	7E33	7900	4/25	24	7.1	7.8	12.6	8.8**	6
Dome Lake #2	7E34	8800	4/30	37	10.8	9.8	12.1	12.7**	5
Geneva Pass	7E37	10600	AERIAL						
Gloom Creek	7E14	9300	4/26	55	16.4	15.3	19.9	17.1**	5
Granite Pass ÷	7E17	8950	4/27	58	17.1	16.4	22.5	20.1**	5
North Tongue	7E15	8800	4/25	34	10.0	9.6			1
Sibley Lake	7E11	8000	4/28	31	9.3	6.9	14.5	11.1**	5
Steamboat Point	7E10	7500	4/28	26	7.5	6.5	13.7	10.7**	5
Sucker Creek	7E12	9000	4/26	44	13.1	12.0	19.1	15.0**	5
Wood Rock G.S.	7E13	8500	4/26	40	11.4	10.6	15.1	12.7**	5
LOWER YELLOWSTONE - POWDER RIVER									
Bear Trap ÷	7F1	8000	5/3	24	8.6	1.9			1
Canyon Creek ÷	7F2	7400	4/29	45	15.5	10.0			1
Clouds Peak	7E36	10000	AERIAL						
Muddy Creek G.S.	7E28	7500	5/1	14	4.2	1.0	3.6	3.8**	5
Munkres Pass ÷	7E8	9700	5/1	30	8.0	7.4	11.7	9.7**	10
Onion Gulch ÷	7E27	8100	4/26	37	8.7	5.6	12.5	8.8**	5
Soldier Park	7E5	8700	5/2	20	6.2	4.3	7.5	5.9**	11
Sour Dough	7E6	8500	5/1	23	6.9	2.0	7.3	7.2	21

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NORTH PLATTE - SWEETWATER									
Grannier Meadows ÷	8G4	9000	4/23	33	7.1	6.8	6.2	15.5	24
Larsen Creek	9G6	9000	4/28	21	7.8	1.7	6.3	6.6**	10
South Pass ÷	8G3	9000	4/23	37	10.0	4.3	7.4	16.3	21
NORTH PLATTE - CROW CREEK									
Pole Mountain #2 ÷	5H1	8700	5/1	5	1.5	0.6	5.2	2.9*	19
NORTH LARAMIE MOUNTAINS									
Boxelder #1 ÷	5G1	9000	5/1	19	6.2	1.5	6.5	4.9**	11
Boxelder #2 ÷	5G1	9000	5/1	20	6.1	3.2			2
Casper Mountain ÷	6G1	8700	5/3	43	14.8	11.4	11.3	13.3**	6
LaBonte ÷	5G2	8450	4/30	0	0.0	0.0	0.0	0.0**	10
UPPER COLORADO - GREEN RIVER									
Big Park ÷	10G11	8700	4/27	39	12.3	14.3	18.0	20.7**	9
Big Sandy Opening	9G9	9200	4/27	29	9.7				
Dutch Joe R.S.	9G5	8700	4/27	11	4.8	0.0	5.2	4.3*	21
East Rim Divide ÷	10F17	7950	4/25	16	5.8	2.9	9.8	10.1*	15
Elk Heart Park G.S.	9G8	9300	4/26	34	11.1				
Elk River[C]	6J4	8700	5/1	40	14.3			12.8	25
Grannier Meadows ÷	8G4	9000	4/23	33	7.1	6.8	6.2	15.5	24
Gros Ventre ÷	10F19	8750	4/30	32	10.4	6.7	11.9	11.2**	5
Kelly R.S. ÷	10G12	8200	4/27	30	10.3	12.8	14.2	16.3**	5
Kendall R.S. #1	10F15	7900	4/29	9	3.6	0.0	5.3	7.3*	22
Kendall R.S. #2	10F15	7900	4/29	11	4.2				
Loomis Park #1 ÷	10F16	8500	4/25	24	9.6	6.0	13.2	13.5*	22
Loomis Park #2 ÷	10F16	8500	4/25	28	9.9	7.8			1
Mulligan Park ÷	9G1	8900	4/26	18	7.0	0.0	6.5	8.0	25
North Horse Creek	10G16		5/1	17	7.7				
Old Battle ÷	6H10	9800	4/28	76	27.4	27.0	29.5	34.1	25
Piney LaBarge #1	10G10	8820	4/29	23	8.4	9.3	16.0	15.4	24
Piney LaBarge #2	10G10	8820	4/29	26	10.5	10.2	19.9		2
Poison Meadows ÷	10G6	8500	4/29	55	20.5	23.9	28.7	31.7**	5
Snyder Basin #2	10G13	8040	4/29	13	4.8	5.6	11.2	11.3**	6
Soda Lake	10G14	8300	4/30	23	8.8	8.3	15.3	15.7**	6
South Pass ÷	8G3	9000	4/23	37	10.0	4.3	7.4	16.3	21
Triple Peaks	10G15	8500	4/30	40	16.6	16.8	26.9	27.8**	5

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NORTH PLATTE - LARAMIE RIVER									
Albany ÷	6H11	9400	5/2	29	9.6	4.7	15.6	11.4**	12
Brooklyn Lake #1 ÷	6H1	10200	4/29	64	23.4	17.5	27.6	25.3	25
Brooklyn Lake #2 ÷	6H13	10200	4/29	60	20.4	14.8	25.9	25.0**	5
Cameron Pass[C] ÷	5J1	10300	5/1	78	27.5	26.0	29.7	25.6	25
Chambers Lake[C]	5J2	9000	5/1	20	8.0	0.0	8.1	4.9	25
Deadman Hill[C] ÷	5J6	10300	5/1	52	17.0	15.5	18.6	17.7	22
Evans ÷	6H15	9000	4/27	33	9.5				
Foxpark ÷	6H12	9200	4/27	18	5.6	0.0	8.0	5.0	25
Hairpin Turn #2	6H2	9500	4/29	31	10.1	5.1	13.5	12.2	25
Hairpin Turn #3	6H2	9500	4/29	34	11.7	4.9	17.7		2
LaBonte ÷	5G2	8450	4/30	0	0.0	0.0	0.0	0.0**	10
Libby Lodge	6H3	8700	4/25	25	8.5	1.5	13.2	7.9	25
Lost Lake[C] ÷	5J23	9300	5/1	36	10.9	5.5	14.2	10.5	10
McIntyre[C]	5J15	9100	5/1	31	10.1	3.3	10.8	9.9	11
Pole Mountain #2 ÷	5H1	8700	5/1	5	1.5	0.6	5.2	2.9*	19
Roach[C]	6J12	9800	5/1	62	15.0	11.3	19.3	20.9	20
NORTH PLATTE - ABOVE SEMINOE RESERVOIR									
Albany ÷	6H11	9400	5/2	29	9.6	4.7	15.6	11.4**	12
Bottle Creek	6H8	8200	4/28	27	9.0	2.5	9.7	10.7	24
Boxelder #1 ÷	5G1	9000	5/1	19	6.2	1.5	6.5	4.9**	11
Boxelder #2 ÷	5G1	9000	5/1	20	6.1	3.2			2
Cameron Pass[C] ÷	5J1	10300	5/1	78	27.5	26.0	29.7	25.6	25
Casper Mountain ÷	6G1	8700	5/3	43	14.8	11.4	11.3	13.3**	6
Columbine[C]	6J3	9300	5/1	54	20.0	13.7	28.1	21.3	25
Evans ÷	6H15	9000	4/27	33	9.5				
Foxpark ÷	6H12	9200	4/27	18	5.6	0.0	8.0	5.0	25
LaBonte ÷	5G2	8450	4/30	0	0.0	0.0	0.0	0.0**	10
North Barrett Creek	6H5	9400	4/27	56	19.2	14.5	21.2	19.4	25
North French Creek	6H4	10200	4/27	80	30.0	29.0	36.9	32.4	23
Northgate[C]	6J7	8500	5/1	15	5.4	0.2	2.7	2.7**	11
Old Battle ÷	6H10	9800	4/28	76	27.4	27.0	29.5	34.1	25
Park View[C]	6J2	9200	5/1	32	8.7	2.1	5.3	6.5	25
Roach[C]	6J12	9800	5/1	62	15.0	11.3	19.3	20.9	20
Rock Creek ÷	6H14	9800	AERIAL						
Ryan Park	6H6	8400	4/27	28	9.9	0.0	6.9	7.4	25
Webber Spring	6H9	9000	4/28	35	12.7	7.2	14.1	16.1	25
Willow Creek Pass[C]	6H5	9500	5/1	42	13.2	7.6	9.9	11.5	23

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SNAKE RIVER - ABOVE JACKSON LAKE									
Grassy Lake ÷	10E15	7265	5/1	59	26.7	25.2	29.2	31.3	21
Lewis Lake Divide	10E9	7900	5/1	88	38.9	28.1	40.1	46.1**	9
JACKSON LAKE TO PALISADES									
Afton R.S.	10G4	6200	5/1	0	0.0	0.0	0.0	0.0**	11
Bryan Flat	10F14	6250	4/25	0	0.0	0.0	0.0	2.0*	15
CCC Camp ÷	10G7	7500	4/28	0	0.0	4.5	5.3	5.9**	11
East Rim Divide ÷	10F17	7950	4/27	16	5.8	2.9	9.8	10.1*	15
Greys Boundary	10E18	5800	5/1	0	0.0	0.0	0.0	1.0*	15
Gros Ventre ÷	10F19	8750	4/30	32	10.4	6.7	11.9	11.2**	5
Grover Park Divide	10G3	7500	4/28	10	4.3	7.1	6.9	7.1**	11
Loomis Park #1 ÷	10F16	8500	4/25	24	9.6	6.0	13.2	13.5*	22
Poison Meadows ÷	10G6	8500	4/29	55	20.5	23.9	28.7	31.7**	5
Salt River Summit ÷	10G8	7900	4/28	16	5.7	8.4	10.0	10.2**	8
Snow King Mtn. #3	10F20	7600	5/1	21	6.9	9.6	11.4		2
Teton Pass #2	10F13	8500	4/28	73	27.4	30.9	37.4	40.2**	12
Togwotee Pass ÷	10F9	9600	4/30	79	28.8	27.0	33.2	33.2**	7
BEAR RIVER									
Big Park ÷	10G11	8700	4/27	39	12.3	14.3	18.0	20.7**	9
CCC Camp ÷	10G7	7500	4/28	0	0.0	4.5	5.3	5.9**	11
Goodman Ranch[u]	10J6	7900	4/27	0	0.0	0.0	0.0	0.9**	6
Hayden Fork[u]	10J7	9300	4/27	23	8.6	N.R.	13.4	15.7**	7
Kelly R.S. ÷	10G12	8200	4/27	30	10.3	12.8	14.2	16.3**	5
Monte Cristo R.S.[u]	11H12	8960	4/26	41	15.4	16.0	20.8	26.6**	10
Poison Meadows ÷	10G6	8500	4/29	55	20.5	23.9	28.7	31.7**	5
Salt River Summit ÷	10G8	7900	4/28	16	5.7	8.4	10.0	10.2**	8
Still Water Camp[u]	10J17	8550	4/27	14	4.9	N.R.	6.1		6
Trial Lake[u] ÷	10J8	9800	4/27	50	16.3	21.0	24.6	30.2**	13

Averages are for the 15 year base period of 1943-57 with the following exceptions:

* Average is for 15 years within and adjacent to the 1943-57 base period.

** Average is for all past data.

u Utah snow courses.

c Colorado snow courses.

m Montana snow courses.

÷ Located close to the divide.

e Partial estimate within the 1943-57 base period.

STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - MAY 1, 1961

BASIN and/or STREAM	Reservoir	Usable Capacity 1000'sAF	Usable Storage - 1000 Acre Feet 1961	1960	1959	15-yr.Avg. 1943-57
Snake River	Jackson	847.0	150.2	514.4	496.6	503.3
	Palisades	1202.0	N.R.			
North Platte	Seminoe	981.8	62.6	276.0	536.1	428.4
North Platte	Pathfinder	1011.0	233.2	299.6	203.7	631.4
North Platte	Alcova**	30.3	28.1	28.1	28.8	158.4
North Platte	Guernsey	39.8	30.7	23.8	33.1	28.5
North Platte	Sutherland	70.0	N.R.	66.6		47.7
North Platte	Kingsley	1900.0	N.R.	1547.8		1219.5
North Platte	Minatare	60.8	30.3	47.9	47.8	41.0
North Platte	Glendo	786.3	319.4	455.2		
Kansas Basin	Bonny	39.9	N.R.	N.R.	37.1	17.1
Kansas Basin	Swanson Lake	116.1	N.R.	N.R.	114.6	
Kansas Basin	Enders	36.0	N.R.	N.R.	37.2	19.9
Kansas Basin	Harry Strunk	33.9	N.R.	N.R.	34.1	27.4
Kansas Basin	Harlan County	252.9	N.R.	N.R.	349.9	
Kansas Basin	Cedar Bluff	176.8	N.R.	N.R.	177.1	72.0
Laramie River	Wheatland	95.0		38.3	37.0	44.1
Belle Fourche	Belle Fourche	185.2	42.3	72.1	70.7	132.9
Belle Fourche	Keyhole	190.3	2.7	11.9	1.4	13.5*
Shoshone River	Buffalo Bill***	380.3	117.5	130.3	44.7	230.3
Big Horn	Greybull	52.8	7.9			
Wind River	Boysen	560.0	92.7	146.5	84.1	405.0*
Wind River	Pilot Butte	31.6	27.4	21.8	17.9	23.0
Wind River	Bull Lake	152.0	56.5	32.4	40.0	53.5
Cheyenne River	Angostura	92.0	7.2	30.0	52.0	53.0*
Cheyenne River	Deerfield	15.1	3.1	3.0	9.6	13.7*
Grand River	Shadehill	84.0		111.0	82.8	86.8*
Green River	Big Sandy	38.3	8.0	8.3	7.7	

* Average is for less than 15 years of record in the 1943-57 period.

** Alcova, downstream from Seminoe and Pathfinder and containing 160,170 acre feet of actove storage that is unavailable to the Kendrick Project.

*** Usable capacity 439,800, however, 59,500 acre feet are inactive except in an emergency.

TO: The Soil and Water Conservation District Cooperator

FROM: The District Board of Supervisors

SUBJECT: May 1, 1961 Forecast of Seasonal Water Supply

This will be the last water supply report that the Board of Supervisors will issue for the 1961 season. The preceeding reports have discussed the various factors that determine a forecast equation. This report will briefly review the mechanics of snow melt runoff.

The water content of the snow pack is, by far, the major index to the volume of summer stream flow. The only way to accurately determine the depth of this "frozen reservoir" is to send snow surveyors into the mountains to measure it. Estimating its contents from valley precipitation stations has proven to be inaccurate, and in some years disastrous. The high elevation snow pack data is subject to two minor corrections. Soil moisture stacks adjacent to the snow course indicate the number of inches of water that will be subtracted from the pack, and the number of inches of evaporation that has taken place in the unprotected areas will reduce the water content data a little more. The balance of the snow survey data indicates the amount of snow melt runoff. So now we have this equation:

Water content minus mountain soil moisture deficit minus
snow pack evaporation equals snow melt runoff.

As you know the Soil Conservation Service heads up the Wyoming Snow Survey program. Agencies contributing to this program are: The State Engineer of Wyoming, the Bureau of Reclamation, the Forest Service, the Park Service, the Indian Service, the Geological Survey, Soil and Water Conservation Districts and Irrigation Districts.

Agencies Cooperating in Wyoming Snow Surveys

FEDERAL

U. S. Department of Agriculture
Forest Service
Soil Conservation Service

U. S. Department of Commerce
Weather Bureau

U. S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE

State Engineer of Wyoming

PRIVATE

Wheatland Irrigation District
Greybull Valley Irrigation District
Clouds Peak Soil & Water Conservation District
Cody Soil & Water Conservation District
Dubois-Crowheart Soil & Water Conservation District
Greybull Valley Soil & Water Conservation District
Lake DeSmet Soil & Water Conservation District
Laramie Rivers Soil & Water Conservation District
Little Snake River Soil & Water Conservation District
Medicine Bow Soil & Water Conservation District
Pinedale Soil & Water Conservation District
S & E Soil & Water Conservation District
Shell Valley Soil & Water Conservation District
Shoshone Soil & Water Conservation District
Tongue River Soil & Water Conservation District
Washakie Soil & Water Conservation District
Wheatland Soil & Water Conservation District

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